

CLAIMS

1. A disposable piping bag comprising a thin, flexible pouch with an expressible, viscous medium sealed therein, said pouch collapsing on the expression of said medium therefrom; said  
5 pouch having a neck portion adjacent one axial end thereof having a conically reducing transverse cross-section;

nozzle means including a funnel-like nozzle base comprising conically inclined wall portions and a spout portion connected in flow relationship therewith;

said conically inclined wall portions having surface dislocations thereon;

10 said nozzle hose being disposed at least in part within said pouch with neck portions thereof in gripping relationship with said conically inclined wall portions so as to create a seal thereon, with said surface dislocations tending to resist reactive forces generated by said pouch to urge said nozzle base out of its gripped, sealed relationship;

said nozzle means further comprising a nozzle cup disposed outside of said pouch;

15 said nozzle base and said nozzle cap including complementary coupling means for selectively coupling said nozzle cup to said nozzle base with portions of said pouch trapped therebetween; and security seal means covering the outlet of said spout portion to prevent the expression of said medium from said pouch.

20 2. A disposable piping bag as set forth in claim 1 wherein said coupling means comprises thread means formed on said nozzle base and mating thread means formed on said nozzle cap.

3. A disposable piping bag as set forth in claim 1 wherein said security seal means is unitarily formed with said pouch.

25 4. A disposable piping bag as set forth in claim 1 wherein said nozzle cap is elongated and has a bore therethrough to form a nozzle tip.

5. A disposable piping bag as set forth in claim 1 wherein said pouch has a relatively constant  
30 radial cross section in upper portions thereof.

6. A disposable piping bag as set forth in claim 1 wherein said pouch is shrink fitted onto said conical wall portions.

35 7. A disposable piping bag as set forth in claim 1 wherein said surface dislocations are in the form of a plurality of axially spaced apart ribs.

8. A disposable piping bag as set forth in claim 1 wherein said spout portion is connected to said conically inclined wall portions by a shoulder, and wherein said nozzle cap traps portions of said pouch against said shoulder.

9. A disposable piping bag as set forth in Claim 1 wherein said security seal means is disposed at the outlet to said spout portion of said nozzle base.

10. A kit for forming a disposable piping bag comprising, in association, a pouch formed from a thin, flexible material expandable between a flat, generally two dimensional form when empty and a three dimensional form when filled, said pouch having axially opposed ends, one said end defining a fill opening for said pouch, the opposed end defining an outlet end;

said outlet end having a progressively diminishing width therealong;

a nozzle means comprising a base portion dimensioned to permit its insertion into said pouch through said fill opening and to be snugly received in said outlet end of said pouch in tightly gripped relation therewith, and a cap portion;

said base portion and said cap portion including complementary coupling means for selectively coupling together said portions with a portion of the film forming said pouch trapped therebetween, to thereby assist in retaining said first base portion when inserted into said pouch in its tightly gripped position;

said coupling means permitting the selective decoupling of said portions to permit a variety of different ones of said cap portion to couple to said first part.

11. A kit for forming a disposable piping bag as set forth in claim wherein said coupling means comprises thread means formed on said nozzle base and mating thread means formed on said nozzle cap.

12. A kit for forming a disposable piping bag as set forth in claim 10 wherein said nozzle base portion includes a truncated conical wall having surface dislocations thereon.

13. A kit for forming a disposable piping bag as set forth in claim 10 wherein said nozzle cap portion is tubular and is open at each end.

14. A kit for forming a disposable piping bag as set forth in claim 10 wherein said pouch has a relatively constant radial cross section in upper portions thereof.

15. A kit for forming a disposable piping bag as set forth in claim 10 wherein said pouch is at least at said outlet end, constructed from a heat shrinkable thermo-plastic material.

16. A kit for forming a disposable piping bag as set forth in claim 10 wherein said base portion includes a truncated conical portion that is circumscribed with a plurality of axially spaced apart ribs.

5 17. A kit for forming a disposable piping bag as set forth in claim 16 wherein said base portion includes a spout portion which connects to said conical portion at a shoulder.

18. A kit for forming a disposable piping bag as set forth in claim 10 wherein said pouch includes matable sealing means adjacent said fill opening.

10 19. A kit for forming a disposable piping bag as set forth in claim 10 wherein said outlet end of said pouch terminates in a nipple.

20. A disposable piping bag as set forth in Claim 10 wherein said outlet end of said pouch is open, and wherein said nozzle base portion is closed with an anti-tamper seal.

21. A kit for forming a disposable piping bag as defined in claim 10 wherein said pouch is disposed in a web.

20 22. A nozzle means for a disposable piping bag comprising a funnel-shaped nozzle base including truncated conical funnel walls and a funnel spout connected to said funnel walls in flow relationship;

a nozzle cap;

coupling means for selectively coupling and decoupling said base and said cap;

25 said funnel walls being generally smooth, with surface dislocations thereon.

23 A nozzle means as defined in claim 22 wherein said coupling means comprises male thread portions disposed on said spout and complementary thread portions formed on said cap.

30 24. A nozzle means as defined in claim 22 wherein said cap is elongated and has a bore therethrough to form a nozzle tip.

25. A nozzle means as defined in claim 22 wherein said surface dislocations comprise a plurality of ribs which are raised on said funnel walls.

35 26. A nozzle means as defined in claim 22 wherein said nozzle base at least is manufactured from stainless steel.